

Appln. No.: 10/712,087
Amendment Dated December 14, 2005
Reply to Office Action of September 16, 2005

YAO-3750US3

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1.-77. (Previously Cancelled).

78. (Currently Amended) A laser light source, comprising:
a distributed feedback type semiconductor laser for emitting laser light;
a semiconductor laser amplifier for amplifying the laser light; and
an optical wavelength conversion element for receiving the amplified laser light so as to generate a harmonic wave, the optical wavelength conversion element having periodic domain inverted structures,
wherein the distributed feedback type semiconductor laser is wavelength-locked.

79. (Previously Presented) A laser light source according to claim 78, wherein the optical wavelength conversion element has a modulation function.

80. (Previously Presented) A laser light source according to claim 78, wherein the optical wavelength conversion element is formed in an $\text{LiNb}_x\text{Ta}_{1-x}\text{O}_3$ ($0 \leq x \leq 1$) substrate.

81. (Cancelled).

82. (Currently Amended) A laser light source according to claim 78,
wherein an optical waveguide is formed on the optical wavelength conversion
element, and, comprising:
~~a semiconductor laser for emitting laser light; and~~
~~an optical wavelength conversion element in which periodic domain inverted~~
~~structures and an optical waveguide are formed,~~
wherein a width and a thickness of the optical waveguide are each 40 μm or greater.

83. (Previously Presented) A laser light source according to claim 82, wherein the optical wavelength conversion element has a modulation function.

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84. (Previously Presented) A laser light source according to claim 82, wherein the optical wavelength conversion element is formed in an $\text{LiNb}_x\text{Ta}_{1-x}\text{O}_3$ ($0 \leq x \leq 1$) substrate.

85. (Previously Presented) A laser light source according to claim 82, wherein the optical waveguide is of a graded type.

86.-87. (Cancelled).